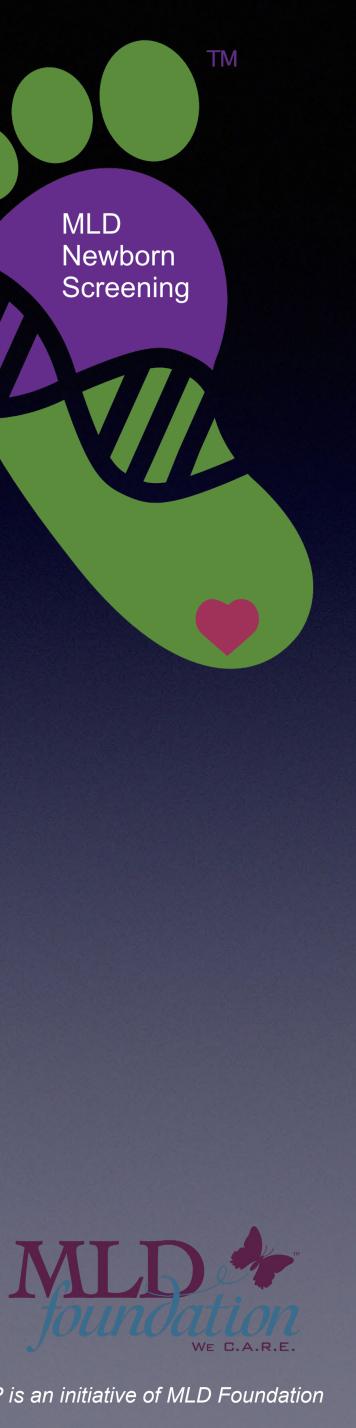
Review of Up and Coming Disorders and the Future of the RUSP

Metachromatic Leukodystrophy

APHL New Disorders Workgroup Winter Webinar Series, Pt 3 February 18, 2021





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Welcome

- 2 children diagnosed with juvenile MLD in 1995
 - Lindy diagnosed at 14 in 1995, 6-year diagnostic odyssey, docs gave us 4-5 years ... she's 40 now
 - Darcee diagnosed at 10, experimental bone marrow transplant
- MLD Foundation launched in 20 years ago ... 2001 We C.A.R.E.TM ... Compassion for families, increasing Awareness, influencing & funding **Research**, and promoting **Education** Global impact with families, researchers, biopharma, regulators, and policy







Metachromatic Leukodystrophy

	Incidence - Births			Prevalence - Alive			
	USA	More Developed Countries	Global	USA	More Developed Countries	Global	lifespan
Late Infantile (50-60%)	63	190	2,000	380	1,150	12,000	7
Juvenile (20-30%)	28	90	900	540	1,650	3,600	20
Adult (10-20%)	23	70	730	1,120	3,500	37,000	50
Total	114	350	3,630	2,030	6,300	52,600	

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Autosomal recessive – 300+ mutations

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- A handful are common ... expect 50-60% high confidence guidance
- Sequencing is tier 3 of current MLD flow

Incidence 1:40,000 ... carrier prevalence 1 in 100

MLD Newborn Screening

mutations 50-60% high confidence guidance MLD flow



MLD Therapy status

- Gene therapy (Orchard)
 - approved in EU 12/20 ... results extraordinary
 - studied by comparing untreated older siblings
 - coming to the US ... IND discussions in process •
 - multiple biopharma in this space
- **Enzyme replacement therapy** in clinical trial •



• Stem cell transplant ... today's standard, 4-5 US expert centers



Early diagnosis empowers families & optimizes outcomes ...

Early Diagnosis = Normal Life!

Pre- symptomatic

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Early diagnosis empowers families & optimizes outcomes ...

Early Diagnosis = Normal Life!

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Pre-progression

Pilot Status

- Deidentified pilot started in 2016 ... U Wa. Gelb lab
 - ms/ms sulfatide first tier
- Identified pilots
 - Germany (2020)
 - ScreenPlus New York (Q1 2021)
 - Italy/EU •
 - other sites



RANSIP Overview **RUSP** Approval and Newborn Screening Implementation

Mission

To facilitate the preparation of a **RUSP Nomination and Approval** ... representing a coordinated effort and collaboration of the MLD and NBS ecosystems.

Further ... to use the RUSP Nomination and other resources along with a coordinated effort to ... empower and help constituents of every state and country to implement MLD newborn screening.



MLD

RANSIP Timing

- 2020 ... launched RUSP Approval and Newborn Screening Implementation Program (RANSIP)
 - Feb. ... formed MLD Expert Advisory Group
 - June ... launched 7 Working Focus Groups
- 2021 ... launching state-by-state implementation





Organization

Expert Advisory Group

EAG



MLD NBS Project Consultant Team (perspective, facilitation, support, & admin)



Screen & Validation WFG

Clinical Care & Research, *Standard of Care* Dublia

WFG

Public Health

Working Focus Groups

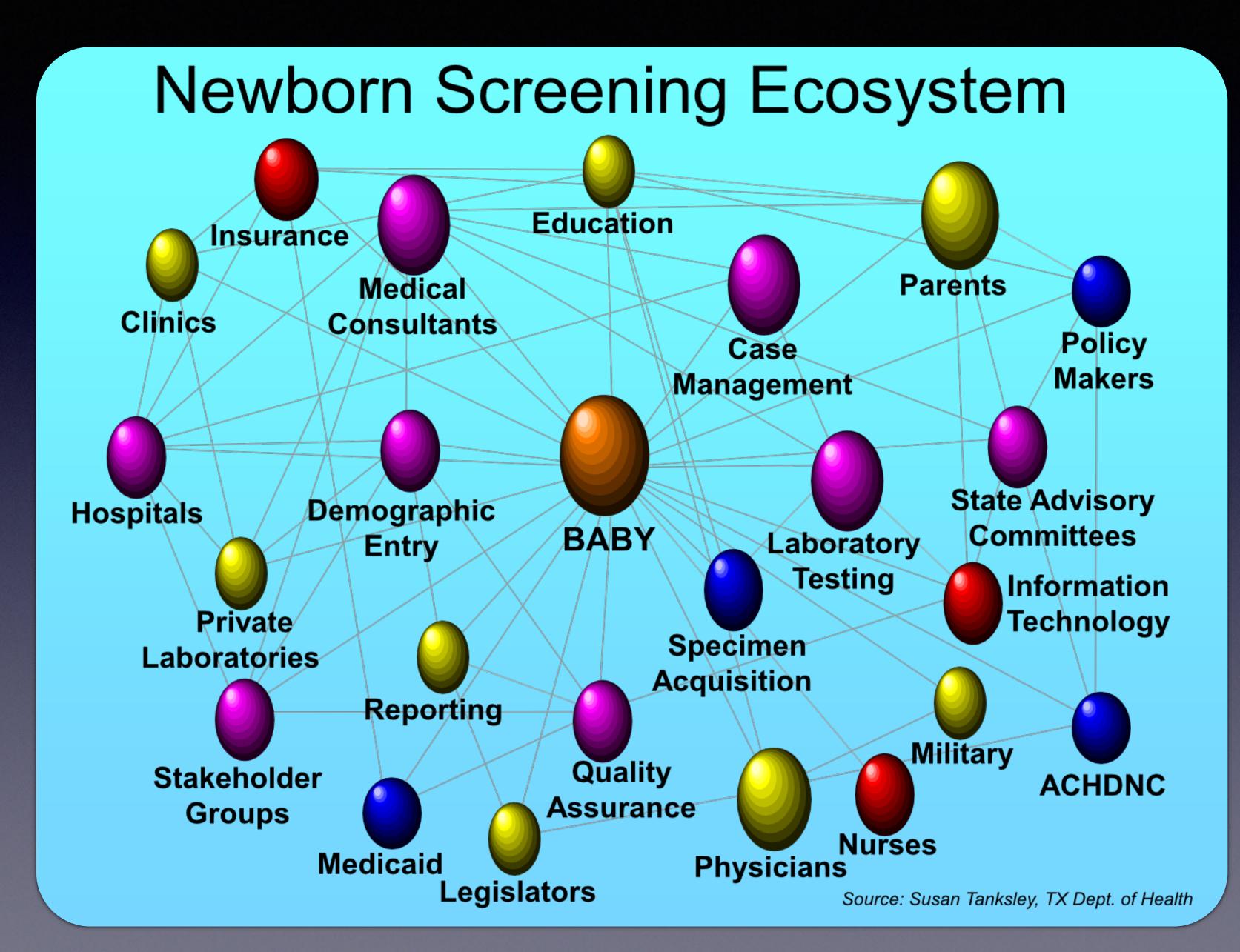
Domain specific consultants and experts (as needed)

WFGWFGWFGWFGEducation
&
OutreachBioethicsAccess,
Reimbursement,
&
LegalForthcoming
Clinical Care
&
Therapeutics

2020-04a

MLD Newborn Screening

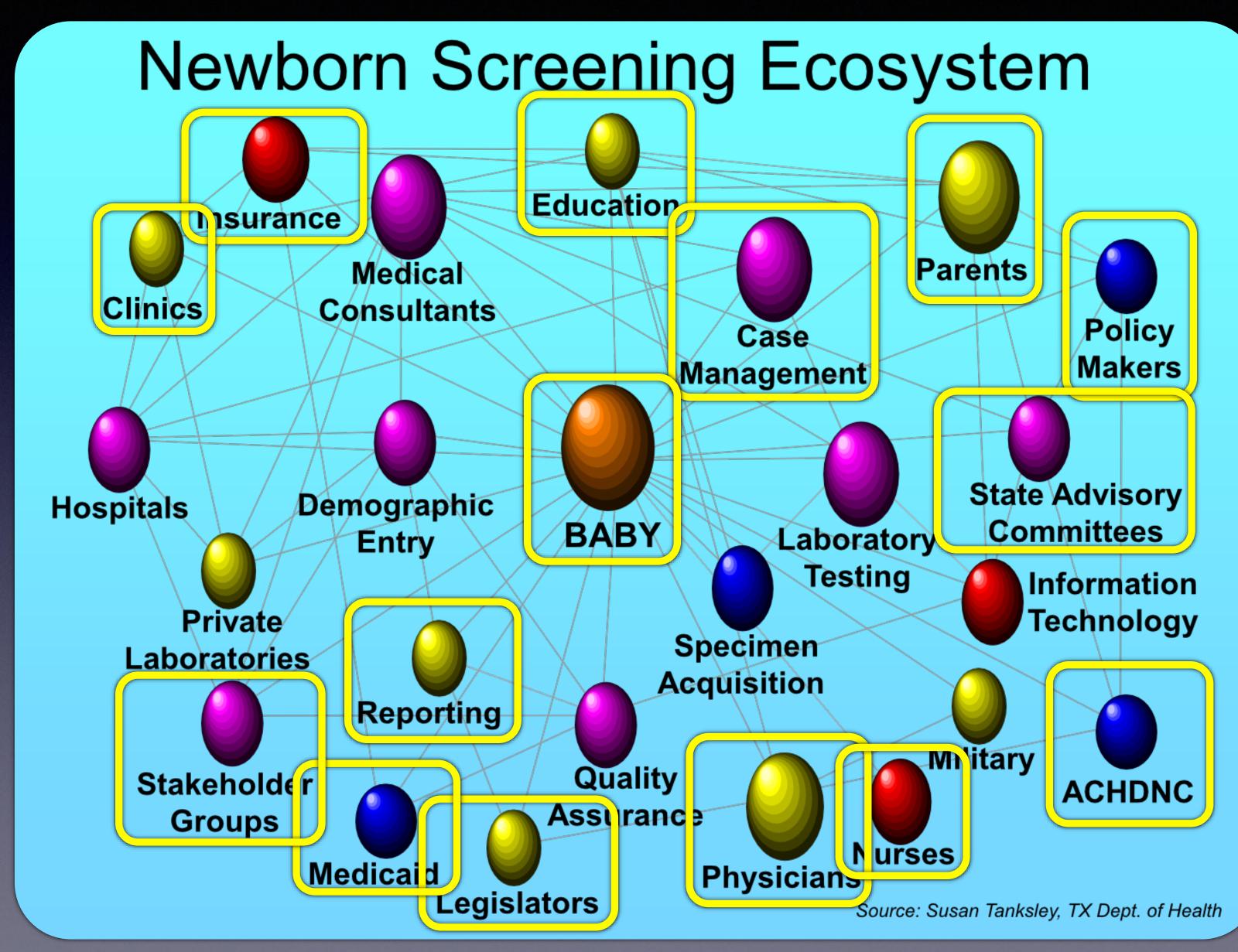




MLD Newborn Screening



Advocacy ... we can help!



plus clinical care, therapies, & LTFU...

MLD Newborn Screening





DISCUSSION

Role of advocacy in public health • Policy – RUSP alignment & appropriations • Value of finding a baby before RUSP Nomination • Tsunami of new therapies & RUSP nominations Long Term Monitoring & Follow Up





WECARETM facilitating Compassion increasing Awareness influencing Research promoting Education

... for Metachromatic Leukodystrophy

